

ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD		Amendment Design Review (ADR) Yes/No: <u>Y</u>		ECN #: <u>915</u>
Date: 07.02.07		ADR Date: 07.02.05		
Job No: 00103		Created By: <u>PH</u>	Checked By: <u>JS</u>	
Product No: D206-667		Approved By: <u>JS</u>	Approved By: <u>JS</u>	
Product Name: CROSSTUBE INSTALLATION		(Proj. Manager)	(Management if reqd)	

Documents Affected:

RELEASE:

D407-667-245 REV. D, D3595 REV A, DSI 9366 REV A

#	Engineering Actions	Yes	No	Responsible	To happen by:	Complete
1	Required Documents/Drawings Under Review?	X		PH	ASAP	07.02.19 PH
2	Update Blue/Pink Folder/Electronic File	X		KJ/PH	ASAP	07.02.14 PH
3	Update DSI Folder/Electronic File	X		KJ	ASAP	07.02.14 PH
4	Update D-Part Master Binder	X		KJ	ASAP	07.02.19 PH
5	Update Grey Project Binder	X		KJ	ASAP	07.02.19 PH
6	Update DEO/DSI Binder	X		KJ	ASAP	07.02.19 PH
7	Update Master Document List (MDL) <u>Rev. E</u>	X		KJ	07.02.28	07.02.14 PH
8	Update Document Record (DR) <u>Rev. L</u>	X		KJ	07.02.28	07.02.14 PH
9	Update Change Record Form	X		KJ	ASAP	07.02.14 PH
10	Move Electronic File	X		KJ	ASAP	07.02.14 PH
11	Notify TC of Change		X			
12	Notify FAA of Change		X			
13	Update QSI 021 (TC/FAA STC)		X			
14	Update QSI 036 (K-Kits)		X			
15	Update Accpac Database	X		KJ	ASAP	07.02.14 PH
16	Update Access Database	X		KJ	ASAP	07.02.14 PH
17	Verification ARC	X		KJ/PH	ASAP	07.02.20 PH
18	Update STC Approval List		X			
19	Update Product Development Summary		X			
20	Create/Update COSS (Estimate/BOM)	X		JLM/EC	ASAP	07.02.14 PH
21	Create/Update PPP's	X		KJ	ASAP	07.02.14 PH
22	Update Paperwork Kits in Production	X		KJ/LL	ASAP	07.02.14 PH
23	Update Paperwork Kits in Stock	X		KJ/LL	ASAP	07.02.15 PH
24	Red Tag Stock with old CHG #		X			
25	Rework/Scrap Current Production	X		JLM/EC/LL	ASAP	07.02.15 PH
26	Rework/Scrap Kits in Stock?	X		JLM/EC/LL	ASAP	07.02.15 PH
27	Update Qpulse/Laminated Dwgs		X			
28	Create/Update Controlled PDF Files	X		KJ	ASAP	07.02.14 PH
29	Create/Update FAI sheets		X			
30	Create/Update CNC Programs		X			
31	Create/Update Tooling	X		JLM/EC	07.02.28	07.02.19 PH
32	MPP required?		X			
33	Notify Previous Customers		X			
34	Notify Eurocopter France		X			
35						
36						

Description / Action:

075
 - NEW KIT: DSI 9366-011.....NEW P/N D3595-000-430.....NEW HARDWARE MS21290-25.....ADD DSI 9366 TO BLUE/PINK FILE
 - UPDATE CHG NUMBER ON D407-667-205 OLD CHG 003 → NEW CHG 004
 - REWORK OLD STOCK AND IN PRODUCTION I.A.W. D407-667-245 REV D, ATTACH DSI 9366 UPON COMPLETION (-205)
 - UPDATE ESTIMATE I.A.W. D407-667-245 REV D

-205 in Prod (19120, 26323, 28483, 28984, 30541) HAIR

-UPDATE PPP for D407-667-205A, CHG move up 1 level OLD CHG 001 → NEW CHG 002

ECN Complete: JS

Date: 07.02.22

Peter Hum

From: Peter Hum [phum@dartaero.com]
Sent: February 14, 2007 8:59 AM
To: 'David Shepherd'
Subject: RE: Parts for 8004198 - 407 float landing gear
Attachments: DSI9366-A.pdf

From: David Shepherd [mailto:dshepherd@dartaero.com]
Sent: February 14, 2007 8:49 AM
To: 'Peter Hum'
Subject: RE: Parts for 8004198 - 407 float landing gear

Looks good ... please sign so that I can sign.

David

From: Peter Hum [mailto:phum@dartaero.com]
Sent: Wednesday, February 14, 2007 6:01 AM
To: 'David Shepherd'
Cc: Kim Johnston (Kim Johnston); Serge Shahbazian
Subject: RE: Parts for 8004198 - 407 float landing gear

David,

Attached is the update to DSI 9366 per your fax. NOTE: On # 5) I added the "MEK or 4105S" into the DSI

We would like to release the drawings and DSI today. If you are satisfied with the DSI 9366, I would like to issue the ECN per your approval.

Therefore,

May I sign for released and add your initials and signature to the DSI for the following:

DWG's D407-667-245 Rev D, D3595 Rev A, DSI 9366 Rev A.

I will attach your acknowledgment to the ECN. Please FedEx back the originals of the above DWG's with your signature and these will be placed in the binders and scanned into the network.

Thanks
Peter

From: David Shepherd [mailto:dshepherd@dartaero.com]
Sent: February 13, 2007 8:52 PM
To: 'Peter Hum'
Subject: RE: Parts for 8004198 - 407 float landing gear

Peter,

I faxed back a couple of minor changes to the DSI.

14/02/2007

The rest of the dwgs are signed.

Based on the lines dwg, I think the angle with the vertical should be $14 - 6.4 = 7.6$ degrees.

We have a 407 here and I measured a 17 mm rise over 134 mm hypoteneuse, which is 7.3 degrees.

I suggest we tell them to make the angle 7.5 degrees for round numbers.

David

From: Peter Hum [mailto:phum@dartaero.com]
Sent: Tuesday, February 13, 2007 2:16 PM
To: 'David Shepherd'
Cc: 'Serge Shahbazian'
Subject: RE: Parts for 8004198 - 407 float landing gear

David,

Attached is the documentation for the 407 aft crosstube

From: S Shahbazian [mailto:sshahbazian@dartaero.com]
Sent: February 13, 2007 1:00 PM
To: 'David Shepherd'; 'Peter Hum'
Cc: 'Chris Provencal'; 'L Lacelle'; 'Bill Beckett'
Subject: RE: Parts for 8004198 - 407 float landing gear

David,

As you suggested, I think we should go ahead and release the DSI the way it is now and look for alternative later on.

Thanks
 Serge

From: David Shepherd [mailto:dshepherd@dartaero.com]
Sent: February 13, 2007 12:09 PM
To: 'Peter Hum'
Cc: 'Serge Shahbazian'; 'Chris Provencal'; 'L Lacelle'; 'Bill Beckett'
Subject: RE: Parts for 8004198 - 407 float landing gear

Peter,

The new design shown in the pictures is acceptable to me. It is considerably better than what I have seen with the other rubbers.

However, it is not ideal to me ... personally, it still looks a little sloppy, although I'm sure it functions just fine.

Is everybody satisfied that this is the best we can do? Perhaps we need to try something other than rubber?

Given the current pressure to release a 407 landing gear, maybe we need to release the design shown in the picture and continue to think about what we could do to improve the look of this assembly. At Passport Helico, I saw a tidy looking sleeve that wrapped around the Heli-Tow-Cart bearpaw clamps (Chris Bell has pictures). I've also been pushing for a better abrasion tape (I sent Serge a sample) that perhaps could be applied on the bottom side of the crosstube instead of using any rubber.

David

From: Peter Hum [mailto:phum@dartaero.com]

14/02/2007

Sent: Monday, February 12, 2007 2:38 PM
To: 'David Shepherd'
Cc: Serge Shahbazian; 'Chris Provencal'; 'L Lacelle'; 'Bill Beckett'
Subject: RE: Parts for 8004198 - 407 float landing gear

Hi David,

The attached pictures show the rubber cushion cut to a width of 0.750".

If this is acceptable to youWe may or may not have the material certs, can it still be shipped without the material certs?....based on the fact that it is just a non-structural rubber cushion?

Linda,

Please check ASAP if we have the material certs for the rubber used.....McMaster P.O. 2885 and M103275?

Thanks
 Peter

From: David Shepherd [mailto:dshepherd@dartaero.com]
Sent: February 12, 2007 2:57 PM
To: 'Peggy McDonald'
Cc: bbeckett@dartaero.com; 'Holly Menard'; 'Peter Hum'; 'Serge Shahbazian'; 'L Lacelle'
Subject: RE: Parts for 8004198 - 407 float landing gear

Peggy,

DSI for changes to D407-667-205 has been written and is with me for review.
 I saw a prototype installation last week and recommended a change for aesthetics.
 I am sure Peter and Serge are all over this.
 Engr documentation can be released in the next couple of days.
 If in stock, everything but D407-667-205 could be shipped TODAY as far as I am concerned.
 Would suspect D407-667-205 could be shipped by END OF WEEK, but this should be confirmed by the team in Hawkesbury

David

From: Peggy McDonald [mailto:peggym@darths.com]
Sent: Monday, February 12, 2007 12:21 PM
To: 'L Lacelle'
Cc: bbeckett@dartaero.com; 'David Shepherd'; 'Holly Menard'
Subject: FW: Parts for 8004198 - 407 float landing gear
Importance: High

Hi Linda,

P/N D407-667-105
 P/N D407-667-205
 P/N D206-642-511 and 512
 P/N D206-628-033 and 034

The customer is urgently waiting for his 407 Float Landing Gear – I know Engineering was looking at the aft crosstube attachment – DO we know where this is at?
 The float system is going to be delivered next week and we were hoping to send the landing gear ASAP. I need to contact the customer again today with more information.

14/02/2007